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1 Publication number:

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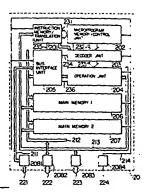
EUROPEAN PATENT APPLICATION

- 2) Application number: 86104747.0
- (5) Int. CL4: G06F 9/44 , G06F 9/42 , G06F 9/46

- 2 Date of filing: 08.04.86
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- ® Date of deferred publication of the search report: 25.10.89 Bulletin 89/43
- Applicant: HITACHI, LTD.
 Kanda Surugadai 4-chome Chiyoda-ku Tokyo(JP)
- Inventor: Kida, Hiroyuki 17-1-102, Moriyamacho-3-chome Hitachi-shi(JP) Inventor: Maejima, Hideo 26-2, Nakanarusawacho-2-chome Hitachi-shi(JP) Inventor: Masuda, Ikuro 15-7, Moriyamacho-2-chome Hitachi-shi(JP) Inventor: Baba, Shirou 39-2-407, 5043, Yamaguchi Tokorozawa-shi(JP)
- Representative: Patentanwälte Beetz sen. Beetz jun. Timpe Slegfried Schmitt-Fumlan
 Steinsdorfstrasse 10
 D-8000 München 22(DE)

- Data processing system.
- (57) A data processing system incorporating a main memory (206) for storing instructions and operands and performing data processing in a mode of microprogram control system in response to instructions translates an instruction word read out of the main memory (1, 2) into an intermediate machine word having the orthogonal format, and addresses a microprogram memory (202) in correspondence to the instruction word by analyzing the intermediate machine word. The system further incorporates a plurality of register sets so that each different task can use an individual register set, and a memory (2106) for memorizing the number of registers holding parameters used commonly among procedures corresponding to the register sets, so that the num-

ber of registers for each use can be changed arbitrarily for each register set by using the memory.



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Application number

EP 86 10 4747

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| | The present search report has t | een drawn up for all claims | 7 | | |
| Place of search Date of completion of the search | | | T | Examiner | |
| | THE HAGUE | 05-07-1989 | | | WILTINK |
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| U: nor | hnological background i-written disclosure irmediate document | | of the | | ent family, corresponding |

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| CLA | IMS INCURRING FEES |
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| The present | European patent application comprised at the time of filing more than ten claims. |
| | All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims. |
| | Only part of the claims less have been paid within the prescribed time limit. The present European search |
| | report has been drawn up for the first ten claims and for those claims for which claims fees have been paid. |
| | namely claims: |
| | No claims less have been paid within the prescribed time Ilmit. The present European search report has been |
| } | drawn up for the first ten claims. |
| | , |
| X LA | CK OF UNITY OF INVENTION |
| | Division considers that the present European patent application does not comply with the requirement of unity of |
| invention an | d relates to several inventions or groups of inventions. |
| namely: | |
| 1. C | aims 1-10: Translate instructions to intermediate form, decode with microprogram |
| 2. C | aims 11,12: Instruction register with half-width readout |
| 3. c | aims 13-19: Multiple register sets with overlap |
| 4. C | aims 20-23: Halt microprogram by inhibiting renewal of instruction- or address-register |
| 5. c | laims 24,25: Decode instructions by means of PLA's |
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| E | All turther search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims. |
| | Only part of the further search fees have been paid within the fixed time limit. The present European search |
| | report has been drawn up for those parts of the European parent application which relate to the inventions in respect of which search fees have been paid, |
| | namely claims: |
| | None of the further search fees has been paid within the fixed time limit. The present European search report |
| | has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims. |
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Application number

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| A. | US-A-4 410 939 (KAWAKAMI) | - | |
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| | Place of search | Date of completion of the search | | Examiner | |
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